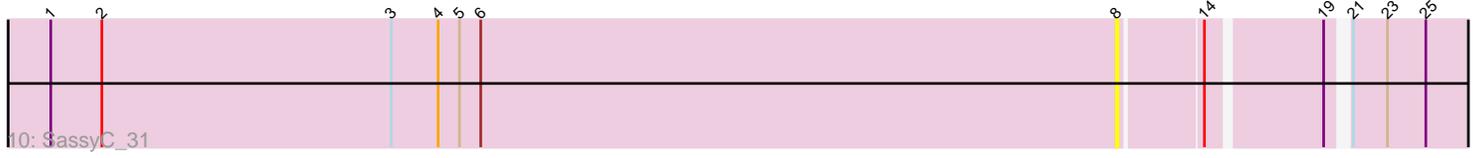
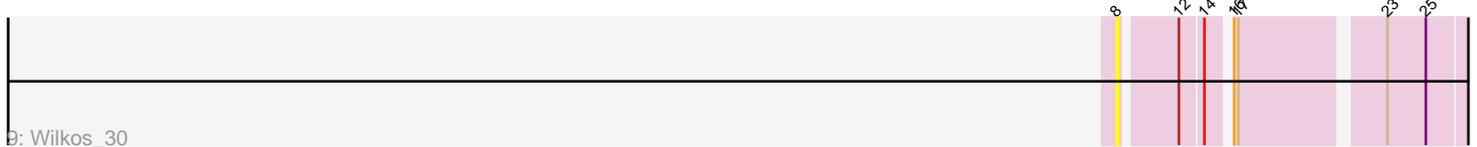
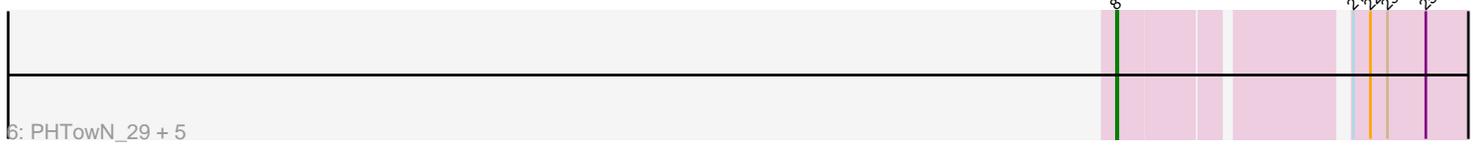
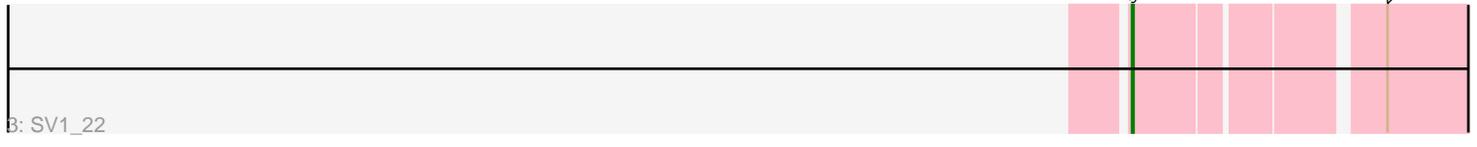
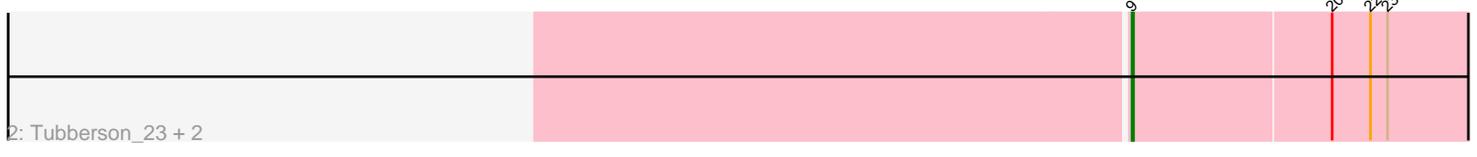
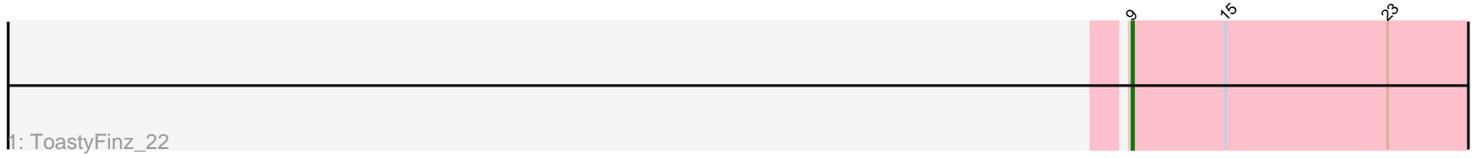


Pham 291604



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 291604 Report

This analysis was run 03/28/26 on database version 641.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 291604 has 17 members, 4 are drafts.

Phages represented in each track:

- Track 1 : ToastyFinz_22
- Track 2 : Tubberson_23, SoJo_23, DaRealMyers_23
- Track 3 : SV1_22
- Track 4 : Picard_22
- Track 5 : Mojorita_22
- Track 6 : PHTowN_29, Lizz_29, ShakeNBake_29, Virizion_33, Gibson_29, Rooney_29
- Track 7 : Dryad_32
- Track 8 : Wentworth_30
- Track 9 : Wilkos_30
- Track 10 : SassyC_31

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 8, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad_32, Gibson_29, Lizz_29, PHTowN_29, Rooney_29, SassyC_31, ShakeNBake_29, Virizion_33, Wentworth_30, Wilkos_30,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- DaRealMyers_23, Mojorita_22, Picard_22, SV1_22, SoJo_23, ToastyFinz_22, Tubberson_23,

Summary by start number:

Start 8:

- Found in 10 of 17 (58.8%) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad_32 (BN), Gibson_29 (BN), Lizz_29 (BN), PHTowN_29 (BN), Rooney_29 (BN), SassyC_31 (BN), ShakeNBake_29 (BN), Virizion_33 (BN), Wentworth_30 (BN), Wilkos_30 (BN),

Start 9:

- Found in 7 of 17 (41.2%) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DaRealMyers_23 (BC1), Mojourita_22 (BC1), Picard_22 (BC1), SV1_22 (BC1), SoJo_23 (BC1), ToastyFinz_22 (BC1), Tubberson_23 (BC1),

Summary by clusters:

There are 2 clusters represented in this pham: BN, BC1,

Info for manual annotations of cluster BC1:

- Start number 9 was manually annotated 6 times for cluster BC1.

Info for manual annotations of cluster BN:

- Start number 8 was manually annotated 7 times for cluster BN.

Gene Information:

Gene: DaRealMyers_23 Start: 19333, Stop: 19587, Start Num: 9

Candidate Starts for DaRealMyers_23:

(Start: 9 @19333 has 6 MA's), (20, 19471), (22, 19498), (23, 19510),

Gene: Dryad_32 Start: 21653, Stop: 21880, Start Num: 8

Candidate Starts for Dryad_32:

(Start: 8 @21653 has 7 MA's), (18, 21758), (22, 21797), (23, 21809), (25, 21836),

Gene: Gibson_29 Start: 20816, Stop: 21049, Start Num: 8

Candidate Starts for Gibson_29:

(Start: 8 @20816 has 7 MA's), (21, 20957), (22, 20969), (23, 20981), (25, 21008),

Gene: Lizz_29 Start: 20625, Stop: 20858, Start Num: 8

Candidate Starts for Lizz_29:

(Start: 8 @20625 has 7 MA's), (21, 20766), (22, 20778), (23, 20790), (25, 20817),

Gene: Mojourita_22 Start: 17147, Stop: 17407, Start Num: 9

Candidate Starts for Mojourita_22:

(7, 17030), (Start: 9 @17147 has 6 MA's), (15, 17213), (23, 17327),

Gene: PHTowN_29 Start: 20623, Stop: 20856, Start Num: 8

Candidate Starts for PHTowN_29:

(Start: 8 @20623 has 7 MA's), (21, 20764), (22, 20776), (23, 20788), (25, 20815),

Gene: Picard_22 Start: 17138, Stop: 17398, Start Num: 9
Candidate Starts for Picard_22:
(7, 17024), (Start: 9 @17138 has 6 MA's), (15, 17204), (23, 17318),

Gene: Rooney_29 Start: 20813, Stop: 21046, Start Num: 8
Candidate Starts for Rooney_29:
(Start: 8 @20813 has 7 MA's), (21, 20954), (22, 20966), (23, 20978), (25, 21005),

Gene: SV1_22 Start: 17352, Stop: 17588, Start Num: 9
Candidate Starts for SV1_22:
(Start: 9 @17352 has 6 MA's), (23, 17508),

Gene: SassyC_31 Start: 20941, Stop: 21174, Start Num: 8
Candidate Starts for SassyC_31:
(1, 20191), (2, 20227), (3, 20431), (4, 20464), (5, 20479), (6, 20494), (Start: 8 @20941 has 7 MA's),
(14, 20995), (19, 21070), (21, 21079), (23, 21103), (25, 21130),

Gene: ShakeNBake_29 Start: 20641, Stop: 20874, Start Num: 8
Candidate Starts for ShakeNBake_29:
(Start: 8 @20641 has 7 MA's), (21, 20782), (22, 20794), (23, 20806), (25, 20833),

Gene: SoJo_23 Start: 19328, Stop: 19582, Start Num: 9
Candidate Starts for SoJo_23:
(Start: 9 @19328 has 6 MA's), (20, 19466), (22, 19493), (23, 19505),

Gene: ToastyFinz_22 Start: 19068, Stop: 19331, Start Num: 9
Candidate Starts for ToastyFinz_22:
(Start: 9 @19068 has 6 MA's), (15, 19134), (23, 19248),

Gene: Tubberson_23 Start: 19333, Stop: 19587, Start Num: 9
Candidate Starts for Tubberson_23:
(Start: 9 @19333 has 6 MA's), (20, 19471), (22, 19498), (23, 19510),

Gene: Virizion_33 Start: 21012, Stop: 21245, Start Num: 8
Candidate Starts for Virizion_33:
(Start: 8 @21012 has 7 MA's), (21, 21153), (22, 21165), (23, 21177), (25, 21204),

Gene: Wentworth_30 Start: 20992, Stop: 21219, Start Num: 8
Candidate Starts for Wentworth_30:
(Start: 8 @20992 has 7 MA's), (10, 21013), (11, 21016), (13, 21040), (17, 21058), (21, 21127), (23,
21151), (24, 21163), (25, 21178),

Gene: Wilkos_30 Start: 20904, Stop: 21131, Start Num: 8
Candidate Starts for Wilkos_30:
(Start: 8 @20904 has 7 MA's), (12, 20940), (14, 20955), (16, 20967), (17, 20970), (23, 21063), (25,
21090),